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Technical specifications

ETV 240

The ETV 240 is an electronic typewriter equipped with memory and video display, which offers a complete set of Word Processing functions, and displays the texts on the screen exactly as they will be printed.

Main features:

- ☐ **12 in. video display, with a capacity of 1920 characters**
- ☐ **Fully Integrated Processor Unit, comprising printer, keyboard, and space for optionals**
- ☐ **non-volatile working memory with a capacity of 16 or 24 KB**
- ☐ **daisy wheel printing element, with automatic pitch recognition**
- ☐ **fully automatic, completely silent paper handling**
- ☐ **user-installable options available.**

TECHNICAL SPECIFICATION

Video display

- ☐ 12 in. display, green on black
- ☐ capacity: 1920 characters (24 lines of 80 characters)
- ☐ graphic matrix: 12x8
- ☐ full graphic set of alphanumerical characters in accordance with the various national alphabets
- ☐ brightness controlled by user
- ☐ screen adjustable to operator's requirements
- ☐ cursor to indicate the working point, choice of type.

Display functions

- ☐ vertical scrolling by line and display page (20 lines)
- ☐ horizontal scrolling for lines longer than 78 characters
- ☐ forward or reverse, a character, word or paragraph at a time
- ☐ highlighting
- ☐ reverse
- ☐ underline
- ☐ reveal and blind.

The display is divided into two zones:

- ☐ one 4-line service zone, which displays:
  - — the working memory available for entering texts, and the operating mode (insert and overtype)
  - — the name of the entered text and any prompt messages for the operator and the machine
  - — the parameters governing the layout (lefthand and righthand margins, length of line, etc.)
  - — the line format
- ☐ one 20-line zone containing the characters that constitute the text.

Immediately after the 20th line is entered, the text is automatically scrolled vertically one line at a time.

Lines containing more than 78 characters are scrolled horizontally, the operator being free to choose the number of characters scrolled at a time, i.e.: 1, 20, 50.

Character set displayed: all the characters that can be keyed in from the keyboard, including dead keys and service codes (such as centering, righthand margin justification, etc.).

FULLY INTEGRATED PROCESSOR UNIT (FIPU)

The FIPU comprises the keyboard, printer, space for the optionals, and the system electronics, all in one casing.

Keyboard

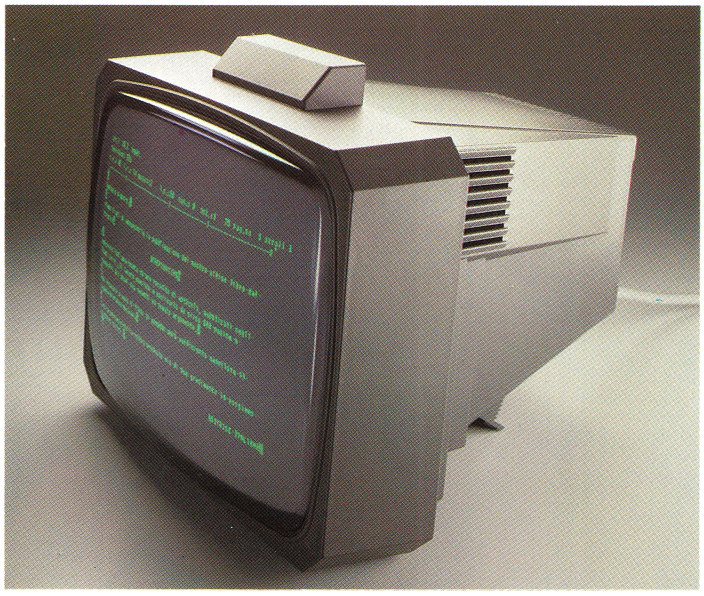
The ETV 240 keyboard is divided into two parts:

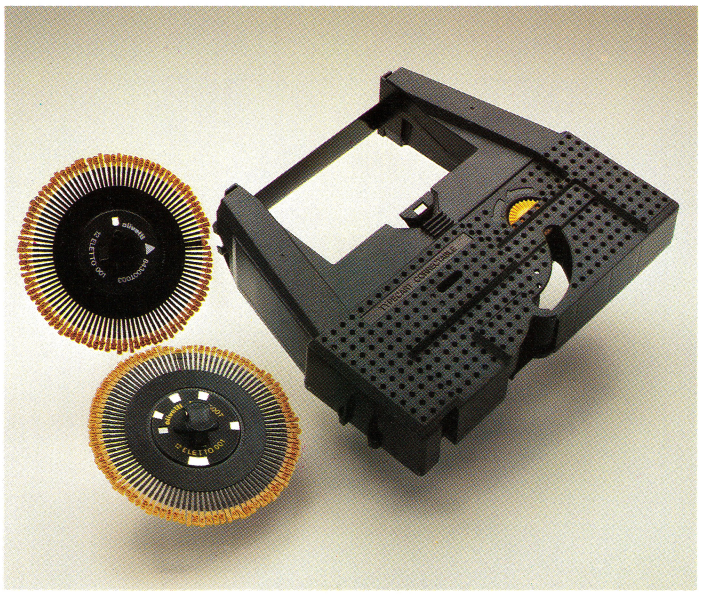
- ☐ the keyboard proper, while designed for a Word Processing environment, includes the functions characteristic of an ordinary typewriter. The different functions of the keys in WP (Word Processing) and TP (Typewriter) mode respectively are clearly marked
- ☐ 1 section consisting of a row of 17 function keys, including:
  - — 6 which select specific machine modes, and are displayed on a LED mask
  - — 6 for selecting specific Word Processing modes
  - — 3 (F1, F2, F3) which are available for special functions
  - — 2 for moving the paper upwards and/or downwards.

Description of keys

(The functions shown in brackets are the ones activated when working in TP mode.)

Alphanumerical keys (max. 48).
REPEAT key, to make all of the keys or certain functions repeat.
Two shift keys.
Shift lock with indicator light.
Automatically repeating line feed and new line control.
Upwards scrolling key.
Downwards scrolling key.
Paragraph indentation key.
Indented paragraph closure key (margin release key).
Key for moving cursor upwards (lefthand margin key).
Key for moving cursor downwards (righthand margin key).
Key for moving cursor to left (tabulation setting key).
Key for moving cursor to right (tabulation clearing key).
AUX key for special functions linked to other keys (backspace key, 1 elementary space).
A special help menu will appear on the display at the operator's command, giving details of the various linked functions.
Automatic repeating single-backspace + cancellation key (backspace key, 1 character).
Automatic repeating character cancellation key.
Decimal tabulation key.
Tabulation key.
CODE key for using coded automatic functions.
Space bar.





Keys on the small keyboard

Automatic centering key.
Right flush key.
Search key.
Manual end-of-page control.
HELP key.
EXIT key for interrupting a specific function.

Display of operating conditions

A special LED mask displays whichever of the machine modes is selected.
KBII: for using special characters (accents, etc.) which are additional to those included in the national keyboard, so as to be able to enter texts in foreign languages without having to change the daisy wheel.
PRINT TYPE: for selecting the type of printing, i.e.:
☐ XXXX normal printing
☐ XXXX normal printing, underlined
☐ **XXXX** printing in bold face
☐ **XXXX** printing in bold face, underlined.
PITCH: for selecting the horizontal spacing, i.e.:
☐ constant 10-pitch spacing
☐ constant 12-pitch spacing
☐ constant 15-pitch (Mikron) spacing
☐ proportional spacing (PS).
Since the daisy wheel is equipped with the automatic pitch recognition device, two LEDs light up automatically – the "A" LED, and the one corresponding to the printing pitch of the daisy wheel that is in use.
LINE FEED: for selecting the vertical spacing. Four vertical spacings can be selected directly (normal, RUYS, Zurich, Legal).
IMPACT: for adjusting the type impact.
MODE: for selecting WP or TP mode. When the system is switched on, WP mode is selected automatically.

MEMORY

The working memory is not volatile, and contains both information needed by the system, and the texts entered. The memory's capacity is approximately 13,000 characters in the 16 KB version, and 21,000 characters in the 24 KB version.

PRINT UNIT

Bidirectional, with a speed of 20 characters per second.
Fixed carriage accepts paper up to 17 inches wide; length of printing line 13.2 inches.
End-of-ribbon monitoring device.
The following are located on the upper part of the machine:
☐ movable paper guide
☐ paper release lever
☐ bail rod
☐ adjustable anti-dazzle screen.
The platen regulator lever, which has different settings to accommodate different amounts of pages (max. 1 original + 6 copies) is inside the machine.

PAPER CONTROLS

Paper handling on the ETV 240 is fully automatic and completely silent, and the paper can be moved up or down, rapidly or a fraction of a line at a time, by keyboard control.
The page is fed in automatically, and positioned at the first typing line as programmed.
In addition, the ETV 240 is fitted with an electronic 5-position paper control, for moving the paper:
☐ upward/downward
☐ fast upward/fast downward with stops at multiples of half one vertical space.

Typing ribbon

Four types of ribbon are available:
☐ fabric, with a capacity of approx. 1,200,000 characters
☐ carbon, with a capacity of approx. 200,000 characters
☐ correctable carbon, with a capacity of approx. 200,000 characters
☐ multi-use, with a capacity of approx. 600,000 characters.

Corrector ribbon

Capacity approx. 1,500 characters.
Two types are available:
☐ LIFT-OFF, for use with correctable carbon ribbon
☐ COVER-UP, for carbon or nylon ribbons.

Printing element

Single interchangeable daisy wheel printing element, with optical recognition strip for automatically selecting the correct printing pitch for whichever daisy wheel is in use.
In addition, the "Daisy Adapter" makes it possible automatically to insert the printing element in the correct position.
The "Daisy Adapter" can also be used with any other Olivetti daisy wheel.

CENTRAL UNIT

☐ basic board, which comprises the machine logic, the printer and video control units.
☐ Z-80 microprocessor
☐ non-volatile working memory with a capacity of 16 KB or 24 KB
☐ power pack
☐ pre-set for connecting communication cassette, microfloppy disks, text storage cartridge.

OPTIONS

The following options available for the ETV 240 **can all be fitted easily by the operator:**
☐ RAM cassette with a capacity of 8 KB, for expanding the working memory to 24 KB
☐ cartridge for text storage (capacity 16/32 KB)

☐ microfloppy disk unit
☐ 5¼ in. minifloppy disk, for reading data recorded on the ETV 300 providing full compatibility between the two environments
☐ adjustable support bracket for the video display, which can be fitted to the desk or table in the required position
☐ RS 232 interface. The interface is housed in a box that is inserted in the rear of the machine, making the system immediately capable of on-line transmission.

The following devices can be fitted by Technical Service personnel:
☐ sprocket feed for continuous stationery
☐ automatic sheet feeder.

Electrical specification

Mains supply: 100-120 V
Frequency: 50/60 Hz.

Dimensions and weight:

FIPU
Width: 23.8 in
Height: 7.3 in
Depth: 20.2 in
Weight: 38.9 lbs
Video display
Width: 12.0 in
Height: 10.7 in
Depth: 12.6 in
Weight: 12.9 lbs

Environmental conditions

Temperature: 59°-95°F.
Relative humidity: 15%-85%.

SOFTWARE SPECIFICATION

The basic functions of the ETV 240 consist of:
☐ the creation, modification, storage, cancellation and printing of texts
☐ rapid, easy search for stored texts.

In addition it is possible, simply by pressing one key, to change over to Typewriter Mode for making short notes, typing addresses, etc.

WP environment: main functions

☐ rapid handling of texts and their location by means of a name and – optionally – a comment
☐ definition, storage and recall of three different line formats in current use
☐ alphabetical and decimal tabulation
☐ indented paragraph (various levels)
☐ centering and right flush
☐ automatic new line when the word keyed in cannot be fitted completely into the typing line (word wrap)
☐ ½ vertical spacing upwards and downwards (superscripts and subscripts)
☐ ABORT (EXIT) function for clearing operator errors
☐ text processing in insert/overstrike mode
☐ righthand margin justification
☐ hyphenation (manual)
☐ search key
☐ global search and replace, automatic or with verification
☐ block move/delete
☐ paragraph assembly
☐ stop printing
☐ manual end-of-page override control
☐ repagination
☐ automatic page numbering
☐ changing of line format before printing
☐ standard text with stop codes
☐ preparation and modification of tables
☐ display and printing of text directory
☐ text deletion
☐ text duplication
☐ disk deletion
☐ text protection
☐ reset (from keyboard)
☐ HELP function.

TP environment: main functions

☐ definition and modification of line format
☐ automatic line, bold type, underlined bold type
☐ alphabetic and decimal listing
☐ automatic correction memory for one line of type
☐ superimposed characters.

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With the right to vary Technical Specifications